Technical Datasheet

PMET 73-20-7 WC-20Cr-7Ni HVOF Powder

September, 2015

PRODUCT OVERVIEW

PMET 73-20-7 is a tungsten carbide – chromium- nickel powder specifically designed for HVOF systems. It produces a hard, abrasive and corrosion resistant coating, with a service environment up to 1400° F (760° C). High chrome like finishes can be obtained by typical grinding or lapping techniques. PMET 73-20-7 is ideal for use in a wide variety of erosive and abrasive wear applications and corrosive environments. It should be used where added corrosion protection is required versus WC-Co coatings.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Typical Hardness: HRC 66

⇒ Bond Strength: 10,000+ psi

⇒ Powder Coverage: 0.24lb/ft^2 per .001" thk
0.10 kg/m^2 per mm thk

* powder coverage can vary depending on spray device and parameters used.

HAZARDS:

Observe safe spraying practices. See Polymet material safety data sheet for details.

APPLICATION

⇒ Oil field applications
⇒ Chemical processing equipment
⇒ Extrusion screws
⇒ Other erosion and abrasion wear applications

POWDER MORPHOLOGY

Spherical, agglomerated and sintered

NOMINAL CHEMICAL COMPOSITION (wt%)

WC	Cr	Ni
73.0	20.0	7.0

RECOMMENDED SPRAY PARAMETERS:

Parameters vary depending on equipment used. Contact your equipment manufacturer for optimum spray parameters:

STANDARD SIZES & PACKAGING:

Particle Size	Packaging	Part Number
-45/+15 microns	10 lb bottles	73207POWDER01

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